

1895.

Vital Statistics,
AND
FIRST ANNUAL REPORT
TO THE
BUCKLOW RURAL DISTRICT COUNCIL,
KNUTSFORD URBAN DISTRICT COUNCIL,
AND
BIDDULPH URBAN DISTRICT COUNCIL
FOR THE YEAR 1895.

PREPARED BY
T. W. H. GARSTANG, M.R.C.S.,

The Medical Officer of Health of the Districts.

IN ACCORDANCE WITH INSTRUCTIONS FROM THE
LOCAL GOVERNMENT BOARD.

KNUTSFORD :

S. SIDDELEY, PRINTER, ETC., KING STREET.

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Bucklow Rural District.

ANNUAL REPORT, 1895.

MR. CHAIRMAN AND GENTLEMEN,

It is with some natural and pardonable hesitation that I lay before you my first Annual Report upon your District. Firstly, because in your late Medical Officer of Health, and my predecessor, John Makinson Fox, you had a man as well known for his practical acquaintance with Public Health and Sanitary work, as for his literary ability and polished writing; and not less so for his courageous advocacy of the views which he held to be right, "without fear, and without favour." Such a man it is difficult for a beginner to follow. Secondly, because I fully realise the importance of the duty entrusted to me, not to omit anything which ought to be recorded, while keeping clear of unimportant or irrelevant matter. Thirdly, because my tenure of office dates only from October 23rd; and I have therefore some difficulty in dealing with the earlier part of the year, as it is outside my personal experience; but in this connection I desire to acknowledge in the fullest possible manner the invaluable assistance I have received from your Inspector, Mr. Mc.Kenzie.

The most important matter affecting the Council during 1895 is undoubtedly the diminution in Area and Population caused by the formation of the two new Urban Districts of Ashton-upon-Mersey and Knutsford. The Area is reduced from 60,503 to 57,159 acres; and the Population from 29,259 to 20,382; (corrected Estimate for 1895, 21,142). To simplify my report I have separated the partial Returns for Ashton-upon-Mersey and Knutsford, and handed them to the respective Medical Officers of Health of those Urban Districts. This Report therefore deals with the present Rural District as though it had existed in that precise form from January 1st, 1895.

An entirely new and independent calculation has been made of the population of each Township as estimated for 1895. This gives the results next stated, and is the basis of all calculations of per-centages.

The whole District is divided for Registration purposes, into 4 Sub-Districts, viz.:—

1. **ALTRINCHAM**, comprising the townships of Ashley, Baguley, Dunham Massey, Hale, and Timperley; with an acreage of 12,719, and a population of 8,894 in 1891, (estimated at 9,461 for 1895).
2. **LYMM**, comprising Agden, Aston-by-Budworth, Bollington, Carrington, High Legh, Millington, Partington, and Warburton; acreage 13,785; population 3,390, (estimated at 3,452).
3. **KNUTSFORD**, comprising Bexton, Marthall, Mere, Ollerton, Peover Inferior, Peover Superior, Pickmere, Plumbley, Rostherne, Tabley Inferior, Tabley Superior, Tatton, and Toft; acreage 20,462; population 3,661, (estimated 3,651). N.B.—In this Sub-District the population decreased between 1881 and 1891.
4. **WILMSLOW**, comprising Mobberley, Northenden, Northen Etchells, and Styal; acreage 10,233; population 4,437, (estimated 4,578).

It is to be remembered that the Semi-Urban Townships are probably under-estimated, and the Rural ones possibly somewhat over-estimated. There is no means of avoiding the resultant error, (which is not likely to be serious), until we get a quinquennial, instead of a decennial, Census.

Prevention of Zymotic Disease.—All cases, as notified, are promptly visited by the Inspector, and most by the Medical Officer also. Instructions for isolation are given; leaflets, teaching the outlines of the appropriate hygienic treatment, are left; disinfectants are supplied gratuitously; and the sick-room and clothing eventually disinfected with Sulphur; meanwhile the premises are examined, and any defects or nuisances found are made the subject of report to the Council, which issues official notices for the necessary improvements, to owners or to occupiers as the case may be. If there be any suspicions attaching to the water supply, it is analysed. Where the patient attends school, notice is sent to the school to exclude all children from the infected house.

Zymotic Diseases.—The notifications during 1895 were 79. If we add Knutsford with 25, and Ashton-upon-Mersey with 21, we get a total for the *old Area* of 125, which we can compare with the 168 of 1894; thus shewing a reduction of 23 per cent. in the cases for 1895 as compared with 1894.

The 79 include 2 of Small Pox, 39 of Scarlet Fever, 12 of Typhoid, 15 of Diphtheria, 3 of Puerperal Fever, 5 of Erysipelas, and 3 of Membranous Croup; distributed as follows:—

TOWNSHIP.	Small Pox.	Scarlet Fever.	Diphtheria.	Memb. Croup.	Typhoid Fever.	Puerperal Fever.	Erysipelas.	TOTAL.	Rate per 1000 of Pop.
Baguley	2	...	4	...	...	6	7·2
Bollington	2	...	...	...	...	2	9·9
Carrington.....	...	1	...	1	...	...	2	4	6·4
Dunham Massey	2	7	...	...	1	2	...	12	5·6
Hale.....	...	4	7	2	3	...	1	17	4·8
High Legh	3	1	...	...	...	...	4	4·7
Mere	4	...	...	...	...	...	4	11·2
Millington.....	...	2	...	...	...	...	...	2	7·2
Mobberley.....	1	1	2	1·6
Northenden	6	1	...	...	...	...	7	4·0
Northen Etchells	...	1	...	...	...	...	...	1	1·3
Ollerton.....	1	...	...	...	...	1	3·8
Partington	1	...	...	...	...	...	1	1·6
Peover Superior..	1	...	...	1	1·9
Pickmere	2	...	...	...	...	...	2	9·2
Rostherne.....	...	1	...	...	...	...	...	1	2·4
Tabley Inferior...	...	1	...	...	...	...	...	1	6·1
Tabley Superior..	...	1	...	...	...	...	...	1	2·2
Timperley.....	...	2	1	...	3	...	1	7	2·7
Warburton.....	...	3	...	...	...	...	...	3	7·3
TOTALS.....	2	39	15	3	12	3	5	79	—

Small Pox.—The only cases occurred on May 29th at Oldfield, Dunham Massey. A woman and her 5-days-old baby were the sufferers. The cases were promptly visited and placed under the charge of a trained Nurse. The child died when a fortnight old. No further cases occurred. The cost of dealing with this outbreak was £28.

Scarlet Fever was with us the whole year, but caused little anxiety. Cases occurred at Rostherne in January, of which one was fatal. The premises were isolated, and found in good sanitary condition. The infection is believed to have occurred when away from home. A fatal case also occurred at Timperley which had been notified in 1894. These were the only fatal cases during the year. Other cases occurred in various Townships, (*see Table*), 8 in January; 7 in February; 5 in March; 2 in April; 1 in May; 0 in June; 2 in July; 2 in August; 4 in September; 2 in October; 5 in November; and 1 in December. Thus there was nothing like an epidemic. The figures support the belief that the type of the disease is becoming modified; and that it is not nearly so fatal as it used to be. This may, in my opinion, fairly be claimed as one of the remarkable benefits conferred upon the Public by modern Sanitary Science; and Notification.

Diphtheria.—1 death occurred in January (notified in 1894). 1 case occurred in May and 3 in June; there was danger of a serious outbreak at Hale Barns, (where there was 1 fatal case), owing to neglect of isolation, and careless visiting and intermixing among the affected families. Various nuisances were noted, during a Special Inspection of Premises; and have since been abated. 1 case in July was followed by 8 in August, of which 1 was fatal (at Carrington). The other cases were divided between Hale, Bollington, and Baguley. At Bollington School it was found that the children were supplied with drinking-water by a daily pail-ful carried from a neighbouring well. On analysis, this water was condemned as unfit for drinking. The Baguley cases were contracted away from home, and the Hale cases occurred in a house previously infected. 1 case in September, 1 in October, and 2 in December (1 fatal at Timperley), complete the list.

Membranous Croup.—1 case in May and 1 in June, (the latter fatal), both in Hale.

Enteric Fever (or Typhoid).—In February a fatal case occurred at Wellfield Lane, Timperley. The patient, a young man of 19, was in business in Manchester, and had contracted the disease away from home. In March there was a case in a block of cottages opposite St. John's Schools, Baguley. Owing to the insanitary condition of the premises, and subsequent cases of Typhoid, the houses were closed by the owner and are to be demolished. A case at Peover Superior was found to have been contracted by the patient (a labourer) cleansing foul closets and drains at a Station not within this District. April gave another case at Baguley, and then there were 3 in June, 1 at Hale and 2 more at Baguley. In August 1 case in Hale and 1 in Timperley. The former was contracted in North Wales. The latter case proved fatal. The patient, a farmer's teamsman, had been carting offensive manure. The end of September brought 2 fatal cases, at Hale and Dunham Massey respectively; both adults, newly returned from holidays at the sea-side, where the disease had been contracted.

Puerperal Fever.—1 case in January, 1 in May, 1 in September; all fatal. The first was at Davenport Lane, Dunham Massey; the second was in the same neighbourhood, and attended by the same midwife. She was officially directed to abstain from further attendances for two months. The third occurred at Paddock Hill, Mobberley; and here also the midwife was similarly warned. It is matter for congratulation and comparison that no case arose in the practise of any qualified medical man.

Erysipelas.—This is not often dangerous to life. 5 Notifications were received, with 1 death.

Measles.—This is not a notifiable disease. It is however known that there was a very extensive Epidemic at Styall in November. No deaths.

Whooping Cough.—Not notifiable. This is given as the cause of 3 deaths; 2 in March, both under 1 year of age; and 1 in July, at the age of $1\frac{1}{2}$ years.

Diarrhoea.—Only 2 deaths, both at Northenden; both under 1 year of age.

Closing of Schools.—The School at Mere was closed in February in consequence of Scarlet Fever in the Master's House; and afterwards disinfected and cleansed. Warburton School was closed in November, owing to fear of an Epidemic, which was fortunately averted. The Styal School was closed in November on account of Measles.

Prosecution for Non-Notification.—In connection with the outbreak at Warburton, a prosecution was instituted at the Lymm Petty Sessions, against the village Shopkeeper for having 2 cases of Scarlet Fever in his house, in the "peeling" stage, without sending notice to the Medical Officer of Health. (N.B.—No medical man had been called in). Ignorance of the law was the only defence offered. A conviction was obtained, and a fine imposed. Subsequently placards and handbills were ordered to be posted and distributed, drawing attention to the responsibility resting on the Householder to give information quite independently of the notification by the medical attendant. The result of this action has yet to be observed.

Births—The number registered in 1895 was 496, made up of 267 males and 229 females. Illegitimate births: 6 in Altrincham R.D., 1 in Lymm R.D., 3 in Knutsford R.D., and 2 in Wilmslow R.D. The birth rate per 1000 is 23·5.

	Total Births.	Rate per 1000.
Altrincham R.D.....	230	24·3
Lymm , ,	76	22·0
Knutsford , ,	86	23·5
Wilmslow , ,	104	22·7

The birth rate in 1894 was 22·8. An increase of 0·7 is therefore recorded; but it is still a long way below the 30 or 31 which is generally the average for England and Wales. The most peculiar point is that it is exactly the average of the old Sanitary District for seventeen years. But as the old District is now minus two townships with high birth rates which were formerly included, the figures are really to be considered as better than the average.

Deaths.—The following 16 deaths, registered in the District, are excluded from all the tables, viz.:—

In Hospital, Dunham Massey, M. 19, Phthisis, from Manchester.

"	"	"	F. 23,	"	"	"
"	"	"	M. 46, Cancer,	"	"	"

In Hospital, Dunham Massey.	M.	26,	Phthisis, from	Manchester.
"	"	M. 46,	"	Salford.
"	"	F. 62,	Cancer,	Longsight.
"	"	F. 17,	Phthisis,	Salford.
"	"	F. 3,	Cancer,	Ardwick.
"	"	M. 36,	Phthisis,	Stockport.
"	"	M. 31,	"	Ardwick.
"	"	M. 63,	Tumour,	Manchester.
"	"	F. 24,	Phthisis,	"
			and	
Drowned,	M.	26,	from Stockport.	
"		M. 24,	from Manchester.	
"		M. 35,	residence unknown.	
"		F. 18,	from Manchester.	

The remainder, amounting to 314 deaths, are fully dealt with in the various tables appended. Table II. shews that the first quarter was far the most fatal, and that the rate fell steadily during the rest of the year. Table III. gives particulars as to each Township; of which it is to be remarked that the three Townships which are over 2,000 population are the only ones large enough to make the per-centages reliable. Of these we find, as might be expected, Hale, the largest and most rural, with a rate (12·3) below the average; while Dunham (17·4) and Timperley (17·7) slightly exceed it, but not more than we might anticipate from their more urban conditions. Phthisis is only accountable for 14 deaths (besides 8 of strangers in the Hospital); Bronchitis 30, Pneumonia 20, Heart Disease 23. Influenza appears 16 times, all of which are in the first half of the year, save one isolated case in December. Injuries of various natures account for 21 deaths, comprising 6 suicides, 6 cases of drowning, and 9 "accidents."

The deaths from the principal zymotic diseases were distributed locally as shewn in Table III., and occurred almost entirely in the Altringham R.S.D.

Examinations and Inspections of the District have been steadily and systematically carried out by the Inspector.

Scavenging Contracts are now only in force in the Townships of Hale and Dunham. Both are increasing in population, and in the work to be done, and it must therefore be expected that the cost will increase also. The Township of Timperley, and a portion at least of the Township of Northenden, require early attention in the matter of systematic scavenging by contract.

Isolation Hospital Accommodation.—Nothing definite has yet been done. The Council possesses a Marquee, and has land on which to erect it in Mobberley. The site will probably not be available after August next, in consequence of its impending purchase by other Authorities for a similar purpose. The Council must obtain another site; or might as well sell the Marquee. Moreover, supposing a site obtained, the Marquee simply forms a Hospital Ward, and would be

useless without the provision of accommodation for a Nurse, and arrangements for Cooking. Should any real emergency arise, I am bound to put plainly on record that we are not adequately prepared to deal with it. The Small-pox case at Dunham occurred (as above stated) in a lying-in woman whom it was impossible to move, otherwise the Marquee would undoubtedly have been brought into use, and its deficiencies would have forced themselves upon your attention. These deficiencies ought to be made good during the present period of repose; it will probably be found both expensive and unsatisfactory if the work has to be done hurriedly under pressure of necessity.

The proposed Small-pox Hospital for the Manchester Corporation, on Carrington Moss, is not getting "any forwarder"; and in any case would not be available for other diseases. I should be glad if the Council would take up this question from the point where it was left, when there was an expectation that cases might be sent into the Carrington Hospital.

Water Supply.—Watchful care has been exercised over the streams within (and also some without) this Council's Area. Frequent inspections have been made; especially of the Pedley and Marthall Brooks which supply Knutsford with drinking water. Many sources of pollution found on the first thorough inspection in 1893, are now found to be greatly improved.

The Manchester Corporation is seeking powers from Parliament to supply Carrington and Partington with water from their mains on the Lancashire side of the Ship Canal. This will be a great boon (when accomplished) to the inhabitants of those two Townships.

In some parts of our District, notably (so far as my short experience goes) in High Legh and in Pickmere, it is difficult to find a good water supply. There is no general public supply. Some few townships get the advantage of proximity to public mains, but most are dependent upon wells and pumps.

30 samples of suspected waters have been analysed by the County Analyst, of which 16 were passed, 9 condemned, and 5 ordered to be filtered before use. 4 samples analysed by your Medical Officer were all condemned.

In conclusion, your Medical Officer can only express his thanks to the Council for the careful attention they have always given to any recommendation in his fortnightly Reports; and for the support which they have hitherto placed at his disposal; and trusts that similar smoothness of working may always in the future characterise his department.

The usual tables are appended.

T. W. H. GARSTANG,
Medical Officer of Health, Bucklow Rural District.

JAN. 9, 1896.

[A] *Table of DEATHS during the Year 1895, in the Bucklow Rural*

NAMES OF LOCALITIES adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	MORTALITY FROM ALL CAUSES, AT SUBJOINED AGES								Smallpox. 1 Scarlatina. 2 Diphtheria. 3 Membranous Croup. 4
	(a)	(b) At all ages.	(c) Under 1 year.	(d) 1 and under 5.	(e) 5 and under 15.	(f) 15 and under 25.	(g) 25 and under 65.	(h) 65 and upwards.	
Altrincham R.S.D.....	136	31	12	6	7	44	36	{ Under 5 ... 5 upwards...	1 1 1 1
Hospital at Dunham Massey	12	...	1	...	4	7	...	{ Under 5 ... 5 upwards...	...
Lymm R.S.D.....	36	9	2	1	...	9	15	{ Under 5 ... 5 upwards...	1 ...
Knutsford R.S.D.	51	7	8	3	5	13	15	{ Under 5 ... 5 upwards...	1 ...
Wilmslow R.S.D.	95	19	9	1	3	28	35	{ Under 5 ... 5 upwards...	1 ...
TOTALS.....	330	66	32	11	19	101	101	{ Under 5 ... 5 upwards...	1 2 2 1
								2	...

The subjoined numbers have also to be taken into account

Deaths occurring outside the district among persons belonging thereto.	3	...	...	...	...	...	3	{ Under 5 ... 5 upwards...	...
Deaths occurring within the district among persons not belonging thereto.	17	...	...	...	...	...	...	{ Under 5 ... 5 upwards...	...

* The heading of column 19 is left blank for the insertion of Influenza,

[B] *Table of POPULATION, BIRTHS, AND OF NEW CASES Officer of Health, during the year 1895, in the Bucklow Rural*

NAMES OF LOCALITIES adopted for the purpose of these Statistics; Public Institutions being shewn as separate localities.	POPULATION AT ALL AGES.				Aged under 5 or over 5.	NEW CASES OF KNOWLEDGE			
	(a)	(b) Census 1891.	(c) Estimated to middle of 1895.	(d) Registered Births		(e)	1	2	3
Altrincham R.S.D.....	8,894	9,461	230	{ Under 5 ... 5 upwards...	2	13	11	2	2
Lymm R.S.D.....	3,390	3,452	76	{ Under 5 ... 5 upwards...	...	10	4	3	...
Knutsford R.S.D.	4,064	3,651	86	{ Under 5 ... 5 upwards...	...	9	1	1	...
Wilmslow R.S.D.	4,437	4,578	104	{ Under 5 ... 5 upwards...	...	7	1	1	...
TOTALS.....	20,785	21,142	496	{ Under 5 ... 5 upwards...	2	39	17	2	2

State here whether "Notification of Infectious Disease" is compulsory

District, classified according to DISEASES, AGES, and LOCALITIES.

in judging of the above records of mortality.

...	...	...	...	...	...	...	...	1	...	2	...	3
...	...	...	...	...	...	...	...	8	...	4	...	2
...	...	...	...	...	...	...	...	8	...	4	...	15

or any other disease which it may be thought desirable to record.

OF INFECTIOUS SICKNESS, coming to the knowledge of the Medical District; classified according to DISEASES, AGES, and LOCALITIES.

in the District. — No.

Sixty-third ed., 1st January, 1890.

SUPPLEMENTARY TABLE 1.

Shewing Births, Birth Rate, Deaths, and General and Zymotic Death Rates, and compared with former Averages; Deaths in Old Age and Infancy, and percentages of these to total Deaths; for the year 1895.

TOTAL.			BIRTH RATE.		DEATH RATE.				DEATHS.		PERCENTAGE TO TOTAL DEATHS OF DEATHS.	
Births.	Deaths.	Deaths from Seven principal Zymotic Diseases.	General.		Zymotic.		At 65 years and upwards.	Under One Year.	At 65 years and upwards.	Under One Year.	At 65 years and upwards.	Under One Year.
			Average	1895.	Average	1895.						
496	318	15	23·5	23·5	14·9	15·0	0·82	0·71	101	66	32	21

SUPPLEMENTARY TABLE 2.

Shewing Deaths, Death Rates, and Zymotic Deaths, and Old Age and Infantile Deaths, in the Four Quarters of the year 1895.

QUARTER ENDING	Total Deaths.	Rate per 1000.	DEATHS.		PERCENTAGE TO TOTAL DEATHS OF DEATHS.		Small-pox.	Scarlatina.	Diphtheria.	Croup.	Enteric Fever.	Puerperal Fever.	Whooping Cough.	Diarrhea.	Total Zymotic Deaths,	Phthisis
			At 65 years and upwards.	Under One year.	At 65 years and upwards.	Under One year.										
March 31st	114	21·8	48	22	42	10	...	2	1	...	1	1	2	...	7	3
June 30th..	77	14·7	21	15	27	19	1	...	1	1	...	1	...	...	4	5
Sept. 30th..	69	12·9	14	14	23	23	...	1	...	3	1	1	1	1	7	2
Dec. 31st ...	58	10·8	18	15	31	26	...	1	...	...	...	1	1	2	2	4

SUPPLEMENTARY TABLE 3.

Shewing Population, Estimated, 1895; Births, Birth-Rate, Deaths, Death-Rate; Deaths from Special Diseases, and at special ages, in entire Sanitary District, the Sub-Districts of Registration, and the individual Townships in 1895.

Population Estimated 1895.	REGISTRATION DISTRICTS AND TOWNSHIPS.	BIRTHS.		DEATHS.		DEATHS FROM SPECIAL DISEASES.						TWO GROUPS OF AGES.							
		Entire.	Rate per 1000.	Entire.	Rate per 1000.		Small-pox.	Scarlatina.	Diphtheria.	Enteric Fever.	Puerperal Fever.	Erysipelas.	Whooping Cough.	Diarrhoea.	Plaethisia.	Over 65 years.	Under 1 year.		
					Avg'age	1895.													
21,142	ENTIRE SANITARY DISTRICT.....	496	23·5	318	15·0	15·0	1	2	4	4	3	1	3	2	22	101	66		
430	Ashley.....	...	...	8	...	18·6	...	...	...	...	...	...	...	...	...	1	1	...	
847	Baguley .....	...	...	10	...	11·8	...	...	...	...	...	...	...	...	...	5	1	...	
2,122	Dunham Massey .....	...	...	37	...	17·4	1	...	1	2	...	1	...	1	...	11	9	9	
3,517	Hale .....	...	...	36	...	12·3	...	...	1	1	2	...	...	...	...	3	9	10	
2,545	Timperley .....	...	...	45	...	17·7	...	...	...	...	...	...	...	...	2	10	11	...	
9,461	ALTRINCHAM R.S.D.	230	24·3	136	...	14·4	1	1	1	4	2	...	1	...	7	36	31	...	
106	Agden.....	...	...	0	...	0·0	...	...	...	...	...	...	...	...	...	...	...	...	...
356	Aston-by-Budworth.....	...	...	3	...	8·4	...	...	...	...	...	...	...	...	...	2	...	...	...
202	Bollington .....	...	...	2	...	9·9	...	...	...	...	...	...	...	...	...	3	...	...	...
623	Carrington .....	...	...	6	...	9·6	...	1	...	...	...	...	...	...	...	4	2	...	...
842	High Legh .....	...	...	8	...	9·5	...	...	...	...	...	...	...	...	...	...	2	...	...
276	Millington .....	...	...	2	...	7·2	...	...	...	...	...	...	...	...	...	...	...	...	...
635	Partington .....	...	...	9	...	14·2	...	...	...	...	...	...	...	...	1	3	4	...	...
412	Warburton .....	...	...	6	...	14·6	...	...	...	...	...	...	...	...	3	3	...	...	...
3,452	LYMM R.S.D.	76	22·0	36	...	10·4	...	1	...	...	...	...	...	4	15	9	...	...	...
127	Bexton .....	...	...	0	...	0·0	...	...	...	...	...	...	...	...	...	...	...	...	...
207	Marthall.....	...	...	1	...	4·8	...	...	...	...	...	...	...	...	...	1	...	...	...
357	Mere .....	...	...	7	...	19·6	...	...	...	...	...	...	...	...	...	4	...	...	...
264	Ollerton .....	...	...	3	...	11·4	...	...	...	...	...	...	...	...	...	1	...	...	...
140	Peover Inferior .....	...	...	4	...	28·5	...	...	...	...	...	...	...	...	...	2	...	...	...
515	Peover Superior .....	...	...	7	...	13·6	...	...	...	...	...	...	...	1	1	2	...	...	...
217	Pickmere.....	...	...	4	...	18·4	...	...	...	...	...	...	...	...	1	...	...	...	...
392	Plumbley .....	...	...	3	...	7·6	...	...	...	...	...	...	...	...	1	...	...	...	...
422	Rostherne .....	...	...	7	...	16·6	1	1	...	1	...	1	...	1	...	1	...	...	...
163	Tabley Inferior .....	...	...	5	...	30·6	...	...	...	...	...	...	...	...	...	...	2	...	...
468	Tabley Superior .....	...	...	8	...	17·1	...	...	...	...	...	...	...	...	4	1	...	...	...
154	Tatton.....	...	...	2	...	12·9	...	...	...	...	...	...	...	...	1	1	...	...	...
225	Toft.....	...	...	0	...	0·0	...	...	...	...	...	...	...	...	...	...	...	...	...
3,651	KNUTSFORD R.S.D.	86	23·5	51	...	11·2	...	1	1	...	...	1	...	1	1	15	7	...	...
1,220	Mobberley .....	...	...	23	...	18·9	...	...	1	1	...	1	...	1	9	3	...	...	...
1,725	Northenden.....	...	...	33	...	19·5	...	1	...	1	2	...	1	2	14	9	...	...	...
758	Northen Etchells .....	...	...	19	...	25·1	...	...	...	...	...	...	...	1	5	4	...	...	...
875	Styal .....	...	...	20	...	22·8	...	...	...	...	...	...	...	1	7	3	...	...	...
4,578	WILMSLOW R.S.D.	104	22·7	95	...	20·7	...	1	1	1	1	2	2	2	35	19	...	...	...

Bucklow Rural District Council.

INSPECTOR'S REPORT, 1895.

In submitting for the information of the Council my Tenth Annual Statement of work accomplished, I feel that I cannot pass un-noticed the lamented death of your late esteemed Medical Officer of Health and my good kind friend and adviser. I feel I owe to his careful advice and training much of whatever Sanitary knowledge I now possess. In compiling the return of a year's work, three parts of which was carried out under his control, it is no injustice to Dr. Fox's successor to place on record my humble tribute to the admirable qualities which he displayed, both as a superior officer, and also as a true friend.

New Sewers and Sewage Schemes.—The new Sewers at Northenden were certified complete and began to work in April. New Tanks have been built and completed at the Timperley Outfall, at Dark Lane, Sinderland. Plans of a new Outfall Sewer, and of land for the necessary outfall works, for Ashley Heath, Hale, are approaching completion. This work is rendered compulsory by the rapidity with which detached Villas of a superior class have been built in what has evidently become a favourite residential neighbourhood.

Sewage Outfalls.—There are now four Sewage Works for which the Council is responsible, viz.:—Hale, Dunham, Timperley, and Northenden; the other two having been handed over to the two new Urban District Councils. The Inspector of the Mersey and Irwell Joint Committee has kept a close watch upon them. On the whole, the results have been fairly satisfactory, except in the case of Hale. Careful search is now being made here for the cause, and various remedial measures are under consideration or in course of execution.

New Bye-Laws—Urban powers have been obtained to control the question of "building line" in Urban Townships. A new and revised set of Bye-Laws for the Council is much needed. A Committee has the matter in hand.

Hackney Carriages.—Urban powers have been obtained to control carriages and drivers in the Townships of Hale, Dunham, and Timperley. 23 carriage licenses and 22 drivers' licenses have already been issued. A code of bye-laws and list of fares have been drafted and are in the hands of a Special Committee, prior to being sent up to the Local Government Board for approval.

Overcrowding.—Six cases have been reported to the Council. In each case the necessary steps have been taken to secure abatement.

Canal Boats.—120 Registered Canal Boats have been inspected in 61 inspections. 29 were engaged in the Manure traffic at Carrington and Timperley. 4 unregistered boats were also at the same work. Many of the boats registered are not used for sleeping in. They were registered for 456 adults, and actually carried 180 men, 49 women, and 9 children. The children were all under school age. Decided improvements are noted from time to time as a result of inspection and advice.

Housing of the Working Classes Act, 1890.—No action has been taken under this Act during the year.

Common Lodging Houses.—There are none now within the District.

Slaughter Houses.—There are only 2 Licensed Slaughter Houses in the District. They have been regularly inspected, and are kept clean.

Dairies and Cowsheds.—Regulations have recently been adopted to control these places. If strictly enforced, nothing less than entire reconstruction will avail, in many instances, to put them on a sound Sanitary footing.

J. MC.D. MC.KENZIE,

INSPECTOR AND SURVEYOR.

INSPECTOR'S AND SURVEYOR'S DEPARTMENT.

Summary of Work Accomplished during 1895.

INSPECTOR'S DEPARTMENT.

Nuisances inspected and reported upon—all abated	355.
" " " " —in course of abatement	44.
Complaints received as to Nuisances—visited and remedial steps taken...	98.
Cases of Overcrowding reported and abated	6.
Houses reported dilapidated—unfit for habitation	7.
Cases of Infectious Disease notified and personally visited, supplied with disinfectants, &c.	90.
Premises personally stoved and disinfected	
Houses reported with Bad Water Supply—wholesome supply obtained afterwards by service of "Formal Notices"	34.
Samples Water Analysed:—	
Passed 16, Doubtful (to be filtered) 5. Condemned 13	34.

1895.

Vital Statistics,

AND

FIRST ANNUAL REPORT

TO THE

KNUTSFORD URBAN DISTRICT COUNCIL

FOR THE YEAR 1895.

PREPARED BY

T. W. H. GARSTANG, M.R.C.S.,

The Medical Officer of Health of the District.

*IN ACCORDANCE WITH INSTRUCTIONS FROM THE
LOCAL GOVERNMENT BOARD.*

KNUTSFORD :

S. SIDDELEY, PRINTER, ETC., KING STREET.

Knutsford Urban District.

ANNUAL REPORT, 1895.

MR. CHAIRMAN AND GENTLEMEN,

In laying before you the first Annual Report ever compiled for the Urban District of Knutsford, it may be desirable to place upon record the circumstances attending the formation of the district.

The two townships were formerly under the jurisdiction of the Altringham Rural Sanitary Authority; on which body I had the honour to serve, along with Mr. Hough, as your representative since the close of 1890. During the whole of 1894 an agitation was in existence for the obtaining of local self-government, evidenced by various public meetings in March, April, and May, which finally resulted in the Ratepayers declining as a body to make the necessary representation to the County Council. Nevertheless this step was taken by one section, the promoters; and on Aug. 2nd the County Council granted an Enquiry which was held on October 8th, and resulted in the creation of an Urban District. Owing to the necessary forms which had to be complied with, it was not until April 27th, 1895, that the election of Councillors took place; and the first Meeting was held on May 3rd; which is therefore the birthday of the Council.

Those who have watched the work of the Council, and observed the number and importance of the local questions which demanded immediate attention, must be by this time thoroughly convinced that its creation was an absolute necessity in the interests of the Public Health of the District. Four questions of the first rank may be specified.

1. CEMETERY.—The accommodation for burials was declared inadequate by Dr. Fox in 1882. The position has grown worse every succeeding year, and in last year's Report, Dr. Fox said—“It has been known for years that fresh interments can hardly be “made in either Churchyard without the disturbance of human “remains.” If the negotiations in which the Cemetery Committee has for months been engaged should prove abortive, the Council will have no choice but to exercise the compulsory powers with which it is endowed; as action is imperatively necessary, and without loss of time.

2. SEWAGE DISPOSAL.—Sundry complaints have been received during the year from the Mersey and Irwell Joint Committee as to the condition of the Sewage Effluent. The filters have been re-modelled; and the effluent now appears satisfactory. If the amount of sewage to be treated could be kept at a minimum, there would probably be no further trouble; but in times of heavy rain the tanks and filters are not capable of dealing satisfactorily with the increased volume poured into them. The simplest and most effectual remedy, and the cheapest also, would seem to be the diversion of this storm water; and it is to be hoped that this improvement may be shortly carried out.

3. WATER SUPPLY.—The quality of the water supplied for consumption in the town has been known to be unsatisfactory for more than 10 years. The first inspection of the stream made by the Inspector of the Bucklow Rural District Council in November 1893, proved the existence of numerous pollutions. The second inspection, made in November 1895, by your Medical Officer, (under your instructions), is the subject of a Special Report presented to the Council on December 3rd, 1895; and has led the Council to condemn the brook, as a source of supply; and to request the Water Company to take immediate steps to provide a more pure and wholesome water.

4. ISOLATION HOSPITAL.—This matter has received careful and prolonged attention from the Hospital Committee. Joint action with the two neighbouring Urban Districts of Wilmslow and Alderley Edge is projected, and is in course of arrangement.

The Statistics referring to the period prior to my Appointment have been obtained from the Bucklow Rural District; and I am therefore able to present to you a complete Report for 1895; as though the District had been in independent existence from January 1st.

Prevention of Infectious Disease.—A Special Report presented to the Council on September 11th, in reference to some recurrent cases of Scarlet Fever, shewed that Isolation was imperfect, and Disinfection incomplete. In the cases which have since occurred, much greater care has been insisted on; and there have been no cases (of any kind) since October.

Infectious Diseases.—25 cases have been notified during the year; comprising 1 of Enteric Fever (Typhoid), 19 of Scarlet Fever; and 5 of Erysipelas. Four of these cases occurred in the Workhouse; and 21 therefore is the number to be considered in the Town. Two deaths occurred in the Workhouse from Erysipelas. Two deaths occurred in the Town from Enteric Fever, (one of which belonged to the 1894 notifications), neither of which was contracted locally. There were no other deaths from zymotic disease.

Other Diseases.

Phthisis.—4 deaths in the Town; 6 in the Workhouse; 1 in the Prison.

Bronchitis and Pneumonia.—8 deaths in the Town; 1 in the Workhouse.

Heart Disease.—7 deaths in the Town; 2 in the Workhouse; 1 in the Prison.

Injuries.—One child died from burns.

Area and Population.—The Area is 1760 Statute Acres. The population in 1891 was 4266; for 1895 is estimated to be 4464. This is exclusive of an average of 213 inmates in the Workhouse; and an average of 316 in the Prison. These two populations are fluctuating, continually changing their components, and quite unsuitable for any calculations of per-centages. Such calculations are therefore only made for the more permanent population of the town itself.

Births.—The births registered are shewn in the following table:-

	Town.		Workhouse.		Prison. M.	Totals.
	M.	F.	M.	F.		
1st and 2nd Qrs..	41	31	7	6	—	85
3rd Quarter....	23	15	1	—	1	40
4th Quarter....	26	12	—	—	—	38
TOTALS....	90	58	8	6	1	163

10 births in the Town were illegitimate, also 13 of those in the Workhouse. The Birth Rate for the Town is 33·15, which is about 40 per cent. above the average for the old Altringham Rural Sanitary District.

Deaths.—6 in the Workhouse belonging to Knutsford, added to the 60 shewn in Table [A], give 66 as a total. This is equivalent to a rate of 14·78, which is slightly larger than the average rate in 1894 for *purely rural* districts (1·5); but is well below the average for England and Wales by 1·8, or about 12 per cent. 14 deaths of infants under 1 year, is equivalent to a rate of 94·6 per 1000 births registered. 25 deaths occurred at upwards of 65 years of age, being 35 per cent.

of all deaths. Deaths from zymotic disease were 2, giving a rate of 0·44, which is just one-third of the 1894 rate for England and Wales, and lower by one-tenth than the 1894 rate for the old Altrincham Sanitary District.

These figures shew one of two things; either (1) that 1895 has been an extraordinarily lucky year; or (2) that the Urban District of Knutsford is an exceptionally healthy place of residence.

Scavenging.—This has been continued during the year on the old lines; in the Nether Ward. Tenders are now invited for 1896 to include the Over Ward. This will be a great convenience to the inhabitants of "Higher Town."

Lighting.—The powers of the Lighting Inspectors are now vested in the Council; and it seems probable that in this matter also those who were outside the old Lighting Area will benefit considerably.

Common Lodging Houses.—There are two, which have been inspected both by the Medical Officer and by the Inspector.

Unsound Meat.—One case was reported to the Medical Officer, but on investigation was not found proved.

Water Analysis.—Several samples of the Town Supply were submitted to the County Analyst, whose reports may be summed up in the word "unsatisfactory."

Sewer Ventilation.—This has been examined, and long-standing complaints as to Brook Street, Legh Road, and Adams Hill, have received attention, with (it is hoped) good results.

Acknowledgments.—In concluding what he believes to be a very satisfactory Report, your Medical Officer begs gratefully to acknowledge the support which he has received from the Council, in the various matters which he has brought to their notice in his monthly (and Special) Reports; and hopes that 1896 may shew, in its turn, as good a record as 1895.

The usual tables accompany this Report.

T. W. H. GARSTANG,

Medical Officer of Health.

January 1st, 1896.

SUPPLEMENTARY TABLE 1.

Shewing Births, Birth Rate, Deaths, and General and Zymotic Death Rates, and compared with the 1894 figures of the old Rural Sanitary Authority; Deaths in Old Age and Infancy, and percentages of these to total Deaths; for the year 1895.

TOTAL.			BIRTH RATE.		DEATH RATE.				DEATHS.		PERCENTAGE TO TOTAL DEATHS OF DEATHS.	
Births.	Deaths.	Deaths from Zymotic Diseases.	R.S.A. 1894.	1895.	General.		Zymotic.		At 65 years and upwards.	Under One Year.	At 65 years and upwards.	Under One Year.
					R.S.A. 1894.	1895.	R.S.A. 1894.	1895.				
148	66	2	22·8	33·1	13·2	14·8	0·53	0·44	25	14	35	21

SUPPLEMENTARY TABLE 2.

Shewing Deaths, Death Rates, and Zymotic Deaths, and Old Age and Infantile Deaths, in the Four Quarters of the year 1895.

QUARTER ENDING	Total Deaths.	Rate per 1000.	DEATHS.		PERCENTAGE TO TOTAL DEATHS OF DEATHS.		Total Zymotic Deaths, (Enteric Fever).	Phthisis
			At 65 years and upwards.	Under One year.	At 65 years and upwards.	Under One year.		
March 31st . .	30	27·5	11	8	36·7	26·7	2	1
June 30th	11	9·9	7	—	63·6	—	—	2
Sept. 30th	7	6·2	2	1	28·6	14·3	—	1
Dec. 31st	18	16·0	5	5	27·8	27·8	—	—

[A] *Table of DEATHS during the Year 1895, in the Knutsford Urban*

NAMES OF LOCALITIES adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	MORTALITY FROM ALL CAUSES, AT SUBJOINED AGES								Smallpox. 1 Scarlatina. 2 Diphtheria. 3 Membranous Croup. 4
	(b) At all ages.	(c) Under 1 year.	(d) 1 and under 5.	(e) 5 and under 15.	(f) 15 and under 25.	(g) 25 and under 65.	(h) 65 and upwards.	(i)	
(a)									
Knutsford (Town)	60	14	4	...	5	17	20	{ Under 5 ... 5 upwards ...	...
Workhouse	37	1	...	1	2	14	19	{ Under 5 ... 5 upwards ...	...
H.M. Prison	3	0	...	...	...	3	...	{ Under 5 ... 5 upwards ...	...
TOTALS.....	100	15	4	1	7	34	39	{ Under 5 ... 5 upwards ...	...

The subjoined numbers have also to be taken into account

Deaths occurring outside the district among persons belonging thereto.	...	...	...	...	...	...	...	{ Under 5 ... 5 upwards ...	...
Deaths occurring within the district among persons not belonging thereto.	34	1	...	...	2	17	14	{ Under 5 ... 5 upwards ...	...

* The heading of column 19 is left blank for the insertion of Influenza.

[B] *Table of POPULATION, BIRTHS, AND OF NEW CASES
Officer of Health, during the year 1895, in the Knutsford Urban*

NAMES OF LOCALITIES adopted for the purpose of these Statistics; Public Institutions being shewn as separate localities.	POPULATION AT ALL AGES.			Aged under 5 or over 5.	NEW CASES OF KNOWLEDGE			
	(b) Census 1891.	(c) Estimated to middle of 1895.	(d) Registered Births.		(e)	1	2	3
(a)								
Knutsford (Town)	4,266	4,464	148	{ Under 5 ... 5 upwards ...	...	17	...	...
Workhouse	200	213	14	{ Under 5 ... 5 upwards ...	...	2	...	...
H.M. Prison	177	316	1	{ Under 5 ... 5 upwards ...	...	...	...	...
TOTALS.....	4,643	4,993	163	{ Under 5 ... 5 upwards ...	...	19	...	...

State here whether " Notification of Infectious Disease" is compulsory

District, classified according to DISEASES, AGES, and LOCALITIES.

in judging of the above records of mortality.

or any other disease which it may be thought desirable to record.

OF INFECTIOUS SICKNESS, coming to the knowledge of the Medical District; classified according to DISEASES, AGES, and LOCALITIES.

in the District. Yes.

Signed — when ? 1st January, 1890.

INSPECTOR'S REPORT, 1895.

Inspections.—The District has had the continuous attention of the Inspector since his Appointment.

Sewers.—Most of the main sewers are in fair working order ; but the Outfall Sewer was found to be in a very bad state, containing 9½ inches of silt. This has been thoroughly cleaned out, and will now take the Sewage of the District, stormy weather excepted. I have had the sewage from Cross Town connected with the main Sewer ; previously this was running direct into the Moor Ditch.

Ventilating Shafts.—Two have been fixed to the main Sewer ; one on Adams Hill and one at Heath Side. I have had three manholes sealed up. The ventilating shafts and the sealing up of the manholes have removed a very great nuisance.

Excrement and Ashes Removal.—This has received my special attention. All complaints have been seen to, and the Scavenging has been very fairly executed.

Schools.—These I have inspected frequently, as I found them in a very unsatisfactory state ; but upon my suggestion, pipes have been laid for the proper flushing and cleansing of the closets.

Privies.—Several of the cess-pit privies have been converted into water closets. New closets and privies are now in course of erection to cottage property, which is a very decided improvement. I trust property owners will follow this good example and convert privies into water-closets.

The Filter Beds, at the Sewage Outfall. I have entirely altered the plan of filtering at these Beds. The effluent since the alteration appears to be very clear ; and I shall do everything in my power to maintain a good effluent.

Surface Water.—I would strongly advise the Council to have the surface-water from the two main streets disconnected from the main Sewers. This would relieve the Precipitation Tanks, and the Filter Beds very much.

Slaughter Houses.—These I frequently inspected and found to be kept very clean.

Bye-Laws.—I would strongly advise the Council to have their Bye-Laws at once drawn up and passed. This would strengthen my position very much.

WALTER DOWNES,

To Dr. Garstang.

INSPECTOR.

1895.

Vital Statistics,

AND

FIRST ANNUAL REPORT

TO THE

BIDDULPH URBAN DISTRICT COUNCIL

FOR THE YEAR 1895.

PREPARED BY

T. W. H. GARSTANG, M.R.C.S.,

The Medical Officer of Health of the District.

IN ACCORDANCE WITH INSTRUCTIONS FROM THE
LOCAL GOVERNMENT BOARD.

KNUTSFORD:

S. SIDDELEY, PRINTER, ETC., KING STREET.

Biddulph Urban District.

ANNUAL REPORT, 1895.

MR. CHAIRMAN AND GENTLEMEN,

Having only received my appointment at your hands on December 27th, 1895, it is obviously impossible for me to Report upon your District from personal knowledge, for the past year. All that I can do is to prepare the usual Tables from the returns placed in my hands; and although it is not obligatory upon me to do even so much, still it gives me much pleasure to accede to the request of your Clerk, and to the suggestion of the County Medical Officer of Health, to prepare these Tables for you; and to draw your attention to any points which appear to deserve remark.

The Registrar's Returns are complete; and Table A is therefore correct; but I am afraid I cannot say as much for Table B, as I have not been able to obtain the Forms of Notification of Infectious Diseases. The interval between the death of Dr. Fox in September, and my appointment in December, appears to have disorganised this portion of my department effectually; and I have only been able to discover 8 Notifications for the first 8 months of the year; a number which is simply ridiculous.

To commence with—*Zymotic Disease*.—There have been no cases of Small Pox. Diphtheria appears to have been frequently present; and 3 deaths (besides 1 from Membranous Croup) are recorded. Enteric Fever has caused 1 death; Puerperal Fever 2 deaths. Measles must have been prevalent, as 2 deaths are attributed to it. There would appear to have been a very severe epidemic of Whooping Cough in the first Quarter, as it is responsible for no less than 5 deaths. Diarrhoea caused 7 deaths, 5 of which were in the last Quarter. Influenza is given as the cause of 4 deaths; in March and April; all occurred in persons over 65 years of age; 3 were complicated with Pneumonia and 1 with Bronchitis. Scarlet Fever has been left to be mentioned last. Fortunately, no deaths are attributed

to it during the whole year ; but there is reason to believe that there have been many cases, more particularly towards the close of the year. My experience of this disease teaches that it is frequently spread by so-called convalescent patients being allowed too soon to mingle with their companions. Isolation for full six weeks, (except under certificate from Medical Attendant), and careful disinfection, are the most potent means at our disposal to check the spread of the disease. I ask the Council to support me in making strict enquiries into these points, in all cases, and in insisting upon their proper observance.

Deaths.—The total is 87, (as against 77 in 1894), giving a rate of 15·9 (against 14·2). No deaths appear to be referred to accident. One is found "Due to the visitation of God." 6 deaths were due to Phthisis. The deaths from Zymotic Disease give a Rate of 2·6, or, excluding Measles and Whooping Cough, of 1·3, which is slightly below the average for similar Districts in the County.

Births.—These number 208, (against 171), and give the very large Rate of 38·1 (against 31·5). I find however that the birth-rate of Urban Districts in Staffordshire is a high one, being 35·4 in 1894 ; about a dozen of the Urban Districts having figures slightly in excess of those now quoted.

The births occurred as follows :—

Quarter Ending	M.	F.	TOTAL.	Illegitimate.	
				M.	F.
March 31st.....	30	18	48	1	—
June 30th	31	26	57	2	1
September 30th..	26	34	60	2	—
December 31st..	23	20	43	1	2
TOTALS....	110	98	208	6	3

Infantile Mortality.—30 deaths under 1 year is equal to a Rate of 144 per 1000 births ; (as against 157 last year) ; figures which are far too large, although not by any means the worst in the County. Dr. Fox's remarks on this point, in last year's Report, deserve careful consideration. 3 children died after premature birth, 7 shortly after birth from debility and 1 from teething ; these 11 were constitutionally

unfit to come into the world at all. "Such evils must be corrected by other agencies than that of the District Council;" so wrote Dr. Fox last year. 1 death from Tubercular Meningitis may perhaps be added to the foregoing list. But the remainder were all preventible. There is no Law of Nature under which 6 victims must necessarily succumb to Diarrhoea or 4 to Whooping Cough:—no less than 18 lives in all might have been saved in this District, in last year, were the mothers of the poorer classes better instructed in the principles of properly clothing, feeding, and managing their infants. The spread of such education is to my mind one of the most fertile fields open to the labours of the Philanthropist.

Population.—This appears to have been 5,557 at the Census of 1881; and 5,290 in 1891; shewing a decrease of 267. In 1894 my predecessor estimated it at 5,400; and having no other data to guide me I have arbitrarily assumed it as 5,450 for 1895; and on that basis have worked out the various calculations in the Tables which are hereto appended.

T. W. H. GARSTANG,

Medical Officer of Health.

JAN. 26, 1896.



INSPECTOR'S REPORT, 1895.

A new Main Sewer of 9-inch Pipes has been laid at Dirty Lane; which has given great satisfaction to the inhabitants. Two new Tanks for filtration have been erected on the Sewerage Land, which is an improvement; but still the Area of Land in use is not sufficient.

ISAAC WORTHINGTON.

[A] *Table of DEATHS during the Year 1895, in the Biddulph Urban*

NAMES OF LOCALITIES adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	MORTALITY FROM ALL CAUSES, AT SUBJOINED AGES													
	(a)	(b)	(c) At all ages.	(d) Under 1 year.	(e) 1 and under 5.	(f) 5 and under 15.	(g) 15 and under 25.	(h) 25 and under 65.	(i) 65 and upwards.	(j)	Smallpox.	Scarlatina.	Diphtheria.	Membranous Croup.
Biddulph.....	87	30	10	3	3	3	23	18	{ Under 5 ... 5 upwards....	2	1			
TOTALS.....	87	30	10	3	3	3	23	18	{ Under 5 ... 5 upwards....	2	1			

The subjoined numbers have also to be taken into account

Deaths occurring outside the district among persons belonging thereto.	...	...	...	...	...	...	...	{ Under 5 ... 5 upwards....	...	...	...	...	...
Deaths occurring within the district among persons not belonging thereto.	...	...	...	...	...	...	...	{ Under 5 ... 5 upwards....	...	...	...	...	...

[B] *Table of POPULATION, BIRTHS, AND OF NEW CASES
Officer of Health, during the year 1895, in the Biddulph Urban*

NAMES OF LOCALITIES adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	POPULATION AT ALL AGES.				NEW CASES OF KNOWLEDGE				
	(a)	(b) Census 1891.	(c) Estimated to middle of 1895.	(d) Registered Births.	(e) Aged under 5 or over 5.	(f) Smallpox.	(g) Scarlatina.	(h) Diphtheria.	(i) Membranous Croup.
Biddulph..... (H.)	5,290	5,450	208	{ Under 5 ... 5 upwards....	8	2	2	...	...
TOTALS.....	5,290	5,450	208	{ Under 5 ... 5 upwards....	5	5	3	1	...

State here whether "Notification of Infectious Disease" is compulsory

District, classified according to DISEASES, AGES, and LOCALITIES.

MORTALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.

	5 Typhus.	6 Enteric or Typhoid.	7 Continued.	8 Relapsing.	9 Puerperal.	10 Cholera.	11 Erysipelas.	12 Measles.	13 Whooping Cough.	14 Diarrhoea and Dysentery.	15 Rheumatic Fever.	16 Phthisis.	17 Bronchitis, Pneumonia, & Pleurisy.	18 Heart Disease.	19 Influenza.	20 Injuries.	21 All Other Diseases	Total
1	2	5	7					2	5	7		6	9	11	4	16	13	40
2													9	11	4		13	47
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SUPPLEMENTARY TABLE 1.

Shewing Births, Birth Rate, Deaths, and General and Zymotic Death Rates, and compared with former Averages; Deaths in Old Age and Infancy, and percentages of these to total Deaths; for the year 1895.

TOTAL.			BIRTH RATE.		DEATH RATE.				DEATHS.		PERCENTAGE TO TOTAL DEATHS OF DEATHS.	
Births.	Deaths.	Deaths from Zymotic Disease Notified.	Average	1895.	General.		Zymotic.		At 65 years and upwards.	Under One Year.	At 65 years and upwards.	Under One Year.
					Average	1895.	Average	1895.				
208	87	7	33.9	38.1	18.0	15.9	1.25	1.28	18	30	20.7	34.5

SUPPLEMENTARY TABLE 2.

Shewing Deaths, Death Rates, and Zymotic Deaths, and Old Age and Infantile Deaths, in the Four Quarters of the year 1895.

QUARTER ENDING	Total Deaths.	Rate per 1000.	DEATHS.		PERCENTAGE TO TOTAL DEATHS OF DEATHS.		Diphtheria.	Memb. Group.	Enteric Fever.	Puerperal Fever.	Measles.	Whooping Cough.	Diarrhoea.	Total Zymotic Deaths,	Phthisis
			At 65 years and upwards.	Under One year.	At 65 years and upwards.	Under One year.									
March 31st	30	22.3	7	10	23.3	33.3	...	1	...	5	1	7	1	7	1
June 30th..	20	14.7	6	9	30.0	45.0	...	...	1	1	2	2	2	2	2
Sept. 30th..	16	11.7	3	3	18.7	18.7	1	...	...	1	2	2	2	2	...
Dec. 31st...	21	15.3	2	8	9.5	38.1	2	1	1	1	5	10	10	3	3